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## No. XXXVII.

*Abstract and Results from eight annual statements (1809 to 1816), published by the Board of Health, of the Deaths, with the diseases, ages, &c. in the City and Liberties of Philadelphia. Communicated by John Vaughan.—Read, Jan. 9, 1817.*

### GENERAL ABSTRACT FOR EIGHT YEARS.

DISEASES.	1809	1810	1811	1812	1813	1814	1815	1816	TOTAL
Abortion	3	1	2	0	1	3	0	0	10
Abscess	10	7	15	4	5	6	4	9	60
Angina Pectoris	1	0	1	1	0	0	2	4	9
Asthma	12	11	8	7	13	5	7	16	79
Aneurism	3	2	1	1	1	4	3	4	19
Anthrax	1	0	0	0	0	0	0	0	1
Apoplexy	31	31	46	34	29	25	50	36	282
Aptha	0	0	0	0	0	3	1	7	11
Atrophy	11	15	14	17	18	35	29	29	168
Burns	12	13	12	4	6	12	14	18	91
Cachexy	0	0	0	0	0	5	4	6	15
Cancer	9	8	12	4	8	19	9	14	83
Caries of the Spine	1	1	1	0	2	2	3	4	14
Casualties	19	16	16	9	9	14	16	17	116
Catarrh	13	8	10	17	6	19	21	46	140
Child Bed	1	1	5	3	4	6	7	9	36
Cholera Morbus	153	206	240	157	178	127	94	90	1245
Cholic	8	10	11	5	5	5	18	5	67
Cold	2	0	0	0	0	0	0	0	2
Consumption of the Lungs	311	306	369	339	216	274	347	434	2596
Convulsions	170	183	162	177	166	174	180	167	1379
Chicken Pox	0	1	1	1	0	0	0	0	3
Decay	84	95	86	50	54	46	63	39	517
Diarrhœa	37	18	35	20	31	25	33	33	232
Diabetes	1	1	0	0	0	0	0	0	2
Dislocation	0	1	0	0	0	0	0	1	2
Dispepsia	3	0	0	0	0	0	0	1	4
Dropsy	34	42	75	49	42	35	53	52	382
of the Breast	41	43	35	15	18	29	19	21	221
in the Brain	40	44	47	50	38	40	65	84	408
Drowned	17	26	33	28	16	21	34	34	209
Dysentery	20	27	48	24	69	66	44	30	328
Drunkenness	8	12	8	4	3	5	7	8	55
Diseases in knee joint	3	1	1	2	2	1	2	1	13
Debility	42	44	63	45	42	48	52	58	394
Epilepsy	8	5	11	4	3	7	5	5	48
Eruptions	4	2	1	0	1	0	1	0	9
Erysipelas	2	3	3	4	2	4	7	19	44
Fracture	7	0	2	3	4	4	5	4	29
Carried forward,	1122	1184	1374	1078	992	1069	1199	1305	9323

DEATHS IN PHILADELPHIA, FROM 1809 TO 1816. 431

DISEASES.	1809	1810	1811	1812	1813	1814	1815	1816	TOTAL.
Brought forward,	1122	1184	1374	1078	992	1069	1199	1305	9323
Fever	17	31	32	29	41	25	35	38	248
Intermittent	} 52	3	5	4	6	5	1	2	26
Remittent		17	14	21	12	12	20	22	170
Bilious		15	23	8	18	4	20	17	105
Nervous	} 62	7	11	4	5	13	8	6	54
Malignant		3	5	3	6	7	2	2	90
Typhus		39	43	36	102	94	84	78	476
Puerperal	4	12	4	4	2	1	3	24	54
Hectic	1	1	6	5	1	5	3	4	26
Scarlet	3	2	3	1	0	0	0	0	9
Inflammatory	3	5	4	6	1	6	5	4	34
Mortification and Gangrene	13	18	23	17	10	17	12	23	133
Gout	3	1	4	2	3	2	4	7	29
Gravel	1	3	2	1	5	2	3	4	21
Hooping Cough	96	32	54	24	29	23	6	46	310
Hives	33	49	40	20	34	22	20	30	248
Hernia	0	1	1	1	1	2	6	2	14
Hæmorrhage	8	7	8	3	2	10	8	10	56
Hydrophobia	0	0	1	1	1	1	0	1	5
Hysteria	1	0	0	0	0	0	0	0	1
Inflammation of the Brain	11	16	14	11	8	11	21	23	115
Lungs	34	12	10	4	12	6	9	19	106
Stomach	0	25	18	36	26	20	35	8	168
Bowels	50	38	27	27	28	24	15	27	236
Liver	12	20	26	14	18	24	21	22	156
Insanity	13	29	32	30	25	22	36	27	214
Jaundice	4	4	3	3	3	2	2	3	24
Lethargy	0	1	0	0	0	0	0	1	2
Locked Jaw	7	3	8	0	2	2	4	0	26
Measles	0	1	2	20	1	9	7	2	42
Murdered	0	0	0	0	1	0	2	1	4
Old Age	55	44	44	46	33	59	60	55	396
Overlaid	1	0	0	0	0	0	0	0	1
Pleurisy	31	73	67	70	49	65	126	130	611
Palsey	25	10	28	23	14	18	21	22	161
Rheumatism	4	6	9	7	4	8	12	6	56
Rickets	0	2	0	0	0	0	0	1	3
Rupture	0	0	4	0	1	0	0	0	5
Scrofula	10	10	16	6	8	13	19	11	93
Sore Throat	7	17	22	15	15	12	14	19	121
Small Pox, natural	95	33	113	0	0	0	0	97	339
Inoculated	6	1	4	0	0	0	0	0	11
Spina Bifida	0	0	0	0	1	0	0	1	2
Still Born	120	139	137	142	66	96	97	94	891
Strangury	0	0	0	0	3	1	1	1	6
Suicide	5	6	2	3	1	5	6	8	36
Sudden	14	44	55	32	19	22	36	34	256
Syphilis	11	11	6	5	1	4	7	8	53
Tabes Nephritica	2	1	0	1	0	0	1	1	6
Teething	15	7	20	11	9	10	8	23	103
Thrush	3	1	1	0	0	0	0	0	5
Ulcers	4	2	10	3	1	6	4	2	32
Visceral Obstructions	5	0	0	0	0	0	0	0	5
Worms	13	15	12	10	8	4	11	12	85
Wounds	3	3	0	3	1	2	6	1	19
Unknown	27	31	39	11	7	8	20	36	179
<i>Registered by Board of Health,</i>	2004	2036	2386	1800	1632	1783	2040	2319	16000
<i>In Public Ground, not Register- ed by Board of Health,</i>									1372
				359	659	354			1372
				2159	2291	2137	TOTAL.		17372

432 DEATHS IN PHILADELPHIA, FROM 1809 TO 1816.

The following Abstracts are taken from the general one.

1. *Abstract of registered Deaths from 1811 to 1816 inclusive, (six years) with designation of the sexes.*

	Males.		Females.		Children.	Annual.		
	Above 20 years.	Under 20 years.	Above 20 years.	Under 20 years.	Unknown.	Totals.		
1811	719	562	525	433	147	2386		
1812	505	419	417	381	78	1800		
1813	521	308	322	388	93	1632		
1814	540	373	425	289	156	1783	Males	6234
1815	763	371	490	284	132	2040	Females	4938
1816	703	450	585	399	182	2319	Unknown	788
	3751	2483	2764	2174	788		Total	11960

2. *Abstract of the Ages of the registered Deaths for eight years.*

Under 1 year,	4106	30 to 40	2065	80 to 90	354	
From 1 to 2	1244	40 to 50	1533	90 to 100	99	
2 to 5	965	50 to 60	1060	100 to 110	16	
5 to 10	580	60 to 70	797	110 to 120	2	
10 to 20	680	70 to 80	573	Unknown	256	
20 to 30	1670		9245		15273	16000

3. *Abstract shewing the number of Deaths in each Month, for eight years, and whether above or under 20 years.*

	Adults.	Child.	Total.		Adults.	Child.	Total.		
January	661	508	1169	July	636	868	1507		
February	629	462	1091	August	902	1176	2078		
March	741	497	1238	September	889	709	1398		
April	815	506	1321	October	730	574	1304		
May	701	522	1223	November	665	538	1203	Above 20	8542
June	715	615	1330	December	655	483	1138	Under 20	7458
			7372				8628	Total	16000

## REMARKS.

The statement for 1817 is not yet published.

No yellow fever prevailed during the eight years referred to in these abstracts.

From some misunderstanding between the local authorities relative to the public burying ground, the Health Officers could, during its three years continuance, only ascertain the *numbers* interred there, without a discrimination of disease, age, or sex, viz. for the years 1812, 359—1813, 659—1814, 354. These numbers amounting to 1372 are added to the General Abstract, and included in the calculation of the proportion the deaths bear to the population. The three abstracts formed from the general one will be little affected by the want of detail as to the 1372, as these may be presumed to bear the same proportions as the deaths of the same years actually registered in the Health Office and detailed in the General Abstract.

In 1810 the Census was taken by the general government and gave the following result, for those parts of the City and Liberties as use the burying grounds from which the returns are made to the Board of Health, and upon which the statements published by them are founded.

City, 53722. Suburbs, 37460. Out-skirts, 3654. *Tot.* 94836. The suburbs and out-skirts are part of the County, the remainder of which has a population of 16374, possessing its own burying grounds, and not subject to the Health Office regulations.

By the General Abstract the total deaths for eight years are 17372, or 2171 yearly, being twenty-three deaths for each thousand on the population of 1810 stated above, but may be rated at twenty-one and a half if we take into view that the population was increasing from 1810, and that the mean population of the term of eight years could not be less than 100,000.

The Census for the same district, was, in 1790, 46177—in 1800, 72141—in 1810, 94836—and for 1820 will (at the same

434 DEATHS IN PHILADELPHIA, FROM 1809 TO 1816.

ratio of increase) exceed 125,000; and we may safely estimate the population of the district for 1816, at 115,000. The deaths of that year were 2310, which shews a loss of one in fifty, or twenty in the thousand.

It has been supposed, that the number of inhabitants in the City and Liberties, has rather been under-estimated in each Census, in consequence of a personal tax; which has in many instances occasioned short returns to be made to the officers employed to take it.

These abstracts and remarks are submitted to the Society as containing valuable facts, and have been thrown into the present form in order to facilitate the use of them.

- M'Euen (T.) Drawing of a machine, and a plan for ascending rapid rivers.  
 Middleton (J. J.) Specimens of dried plants, from S. Carolina.  
 Montgomery (J. C.) Spec. of min. from Switz. & Italy, brought by him from thence.  
 Pennington (F.) Specimen of blue iron earth, from Monmouth county, N. J.  
 Sansom (Joseph). Silver medals of Washington and Franklin.  
 Vaughan (John). The Busts of Caspar Wistar and Alexander Hamilton.  
 Williams (Jona.) Model and plan of a Torpedo boat invented by Robert Fulton.  
 — Specimen of Lava brought from Mount Ætna, by Gen. Eaton.

☞ The Cabinet has been also enriched by donations from Mrs. H. Barnard, Aug. Bousquet, T. Cadwallader, James Cloud, Sam. Hazard, Dr. Henning, R. E. Hobart, Dr. Harris, J. Lea, W. C. Poultney, J. P. Todd.

**Statement of Deaths, with the Diseases and Ages, in the City and Liberties of Philadelphia, from the 1st of January, 1817, to the 1st of January, 1818.—This serves as an Appendix to the communication in page 430 of this volume.**

MONTHS.				AGES.		EXES.	
	Adults.	Children.	Totals.				
Jan.	98	59	157	Under 1 year,	548	Males of 20 years and upwards,	748
Feb.	89	81	170	From 1 to 2	138	Ditto under 20 years,	438
March,	106	79	185	2 to 5	134		1186
April,	131	76	207	5 to 10	73	Females of 20 years and upwards,	545
May,	140	73	213	10 to 20	96	Ditto under 20 years,	379
June,	119	76	195	20 to 30	256		924
July,	86	103	189	30 to 40	325	Children, principally under 1 year,	
August,	107	123	230	40 to 50	222	whose sex is unknown,	107
Sept.	125	108	233	50 to 60	162		
Oct.	86	60	146	60 to 70	106	Total,	2217
Nov.	94	48	142	70 to 80	84		
Dec.	112	38	150	80 to 90	61		
				80 to 100	11	☞ The City and Liberties of Philadelphia	
				100 to 110	1	are supposed to contain about one hundred and	
						twenty thousand inhabitants.	
Totals,	1293	924	2217	Total,	2217		

*The Deaths in the preceding statement were caused by the following Diseases and Casualties, viz.*

Aphthæ . . . . .	5	Debility . . . . .	81	Inflammat. of the Stomach	31
Asthma . . . . .	8	Diabetes . . . . .	1	Bowels	29
Abscess . . . . .	11	Epilepsy . . . . .	3	Liver	26
Aneurism . . . . .	1	Erysipelas . . . . .	7	Bladder	2
Apoplexy . . . . .	25	Eruptions . . . . .	7	Jaundice . . . . .	4
Atrophy . . . . .	30	Fracture . . . . .	2	Lethargy . . . . .	2
Angina Pectoris . . . . .	2	Fever . . . . .	47	Locked Jaw . . . . .	9
Burns . . . . .	10	Intermittent	6	Old Age . . . . .	50
Cancer . . . . .	17	Remittent . . . . .	21	Pleurisy . . . . .	88
Casualties . . . . .	24	Bilious . . . . .	16	Palsey . . . . .	32
Catarrh . . . . .	30	Nervous . . . . .	6	Rheumatism . . . . .	9
Child Bed . . . . .	5	Malignant . . . . .	4	Scrofula . . . . .	16
Cholera Morbus . . . . .	137	Puerperal . . . . .	14	Sore Throat . . . . .	10
Cholic . . . . .	12	Typhus . . . . .	95	Still Born . . . . .	110
Consumption of the Lungs	349	Hectic . . . . .	5	Suicide . . . . .	2
Convulsions . . . . .	167	Inflammatory	2	Sudden . . . . .	33
Concussion of the Brain	3	Gangrene and Mortifica-		Syphilis . . . . .	6
Cachexy . . . . .	2	tion . . . . .	14	Stone . . . . .	2
Contusions . . . . .	2	Gout . . . . .	6	Suffocation . . . . .	1
Decay . . . . .	29	Hooping Cough . . . . .	21	Scirrhus . . . . .	2
Diarrhœa . . . . .	59	Hives . . . . .	21	Small Pox, natural	52
Dropsy . . . . .	64	Hernia . . . . .	1	Spina Bifida . . . . .	1
of the Breast	20	Hæmorrhage . . . . .	12	Teething . . . . .	26
in the Brain	65	Hydrophobia . . . . .	1	Tabes . . . . .	1
Drowned . . . . .	31	Insanity . . . . .	24	Ulcers . . . . .	1
Dysentery . . . . .	33	Inflammation of the Brain	21	Worms . . . . .	14
Drunkenness . . . . .	17	Lungs	8	Unknown . . . . .	52
Drinking Cold Water	2		1160		1606
				Grand Total,	2217

*By order of the Board,*

**JOSEPH PRYOR, Clerk.**

Health Office, January 20, 1818.